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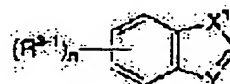
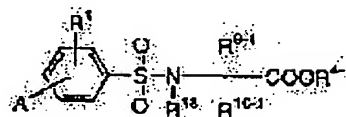
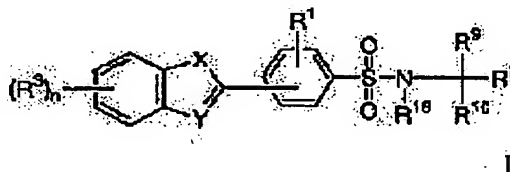
(71)Applicant : ONO PHARMACEUT CO LTD
 (72)Inventor : TAKAHASHI KANJI
 SUGIURA TSUNEYUKI

(54) PHENYLSULFONAMIDE DERIVATIVE

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain the subject new compound having an inhibiting action to a matrix metalloproteinase, e.g. gelatinase, stromelysin or a collagenase, and useful for the prevention and treatment of rheumatoid arthritis, etc.

SOLUTION: This phenylsulfonamide derivative is an objective compound expressed by formula I [R1 is H or a 1-4C alkyl; R2 is COOR4 (R4 is a 1-8C alkyl, phenyl, etc.), CONHOR5 (R5 is H, a substituted 1-4C alkyl, etc.); X is O, S, etc.; Y is CH or N; R3 is H, a 1-4C alkyl, etc., (n) is 1-4; R9, R10 are H, a 1-8C alkyl, etc.; R18 is H, a 1-4C alkyl or a 1-4C alkoxycarbonyl], e.g. N-[4-(2-indolyl) phenylsulfonyl-D-alanine. Further, to obtain the objective compound, e.g. it is preferable to react a compound expressed by formula II (A is a halogen or trifluoromethanesulfonyloxy) with a compound expressed by formula III in the presence of an organic solvent and a metal halide by using a catalyst at 0-100°C.



LEGAL STATUS

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